

WHAT IS CLAIMED IS:

1. An affinity detecting/analytical chip comprising a plurality of capillaries bundled together, said capillaries having, fixed to an inner surface thereof, probe molecules causing different specific binding reactions.

2. The chip of claim 1, wherein the probe molecules are DNA's, RNA's or PNA's and fragments thereof, oligonucleotides having arbitrary base sequences, antigens, antibodies or epitopes, and enzymes, proteins or functional site polypeptide chains thereof.

3. A method for producing the chip of claim 1 or 2, comprising bundling different capillaries by use of suitable binding means while precisely positioning the capillaries, said capillaries having the probe molecules fixed to or synthesized on the inner surface thereof beforehand.

4. A detection method comprising:

flowing molecules as a sample into a bundled of capillaries having, fixed to an inner surface thereof, probe molecules causing different specific binding reactions, to cause specific binding reactions, thereby binding the sample molecules to the inner surface of the capillaries;

then applying light from one end of the capillary bundle; and

observing light exiting from an opposite end surface of the capillary bundle, thereby examining the capillaries for presence of binding.

5. A reaction product detection system comprising:

a binding device for binding an analyte to an affinity detecting/analytical chip comprising a plurality of capillaries precisely positioned, bundled together by binding means, and further resin molded, each of said capillaries having probe molecules fixed to an inner surface thereof;

a light absorption observation device comprising a module housing portion for accommodating the analyte-bound affinity detecting/analytical chip, a light emitting

portion provided ahead of the module housing portion, and  
an observation unit provided behind the module housing  
portion; and

a data processing device connected to the light  
absorption observation device.

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